PCT/US01/22824

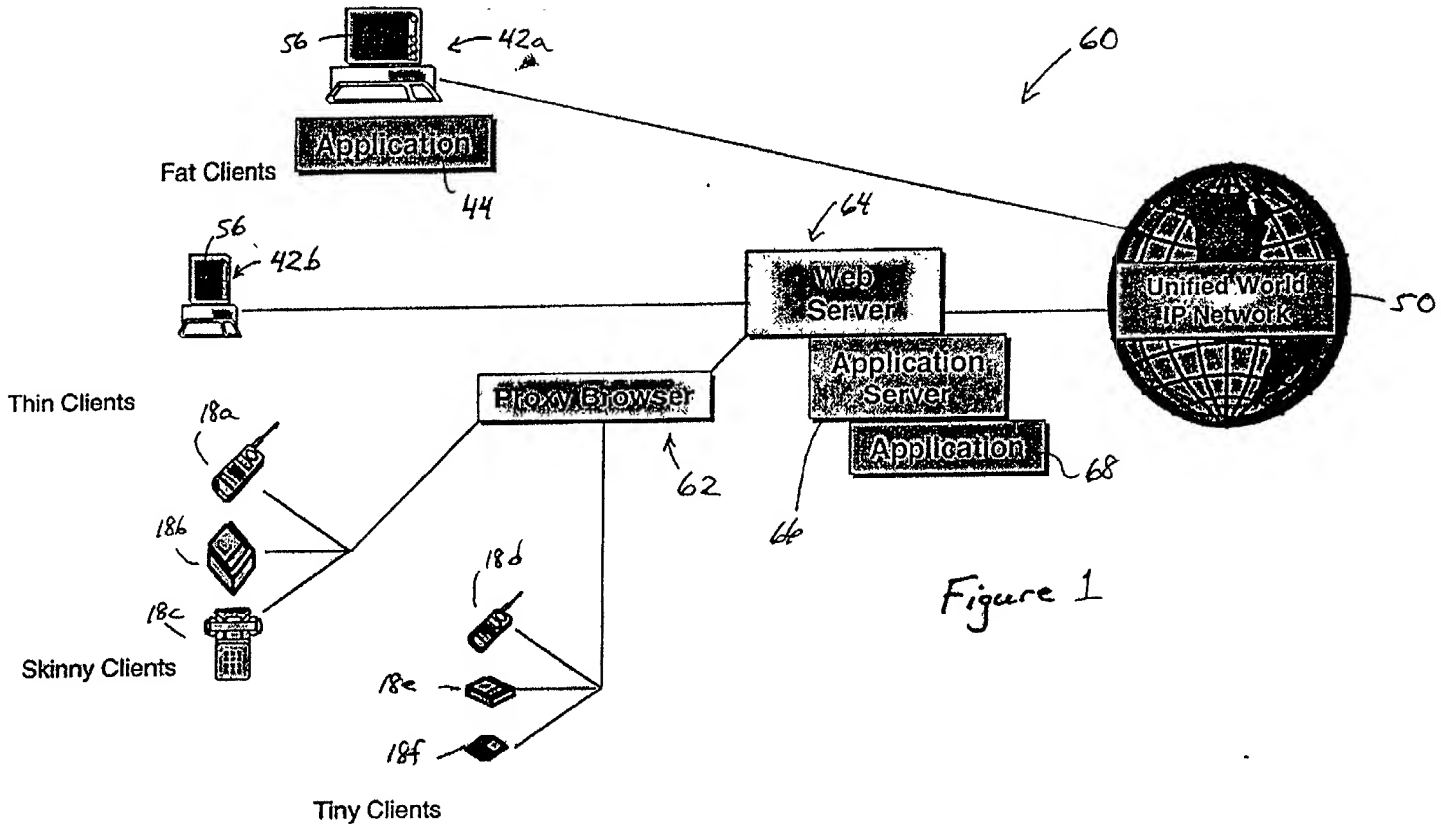

Figure 1

PROTECTED DOCUMENT

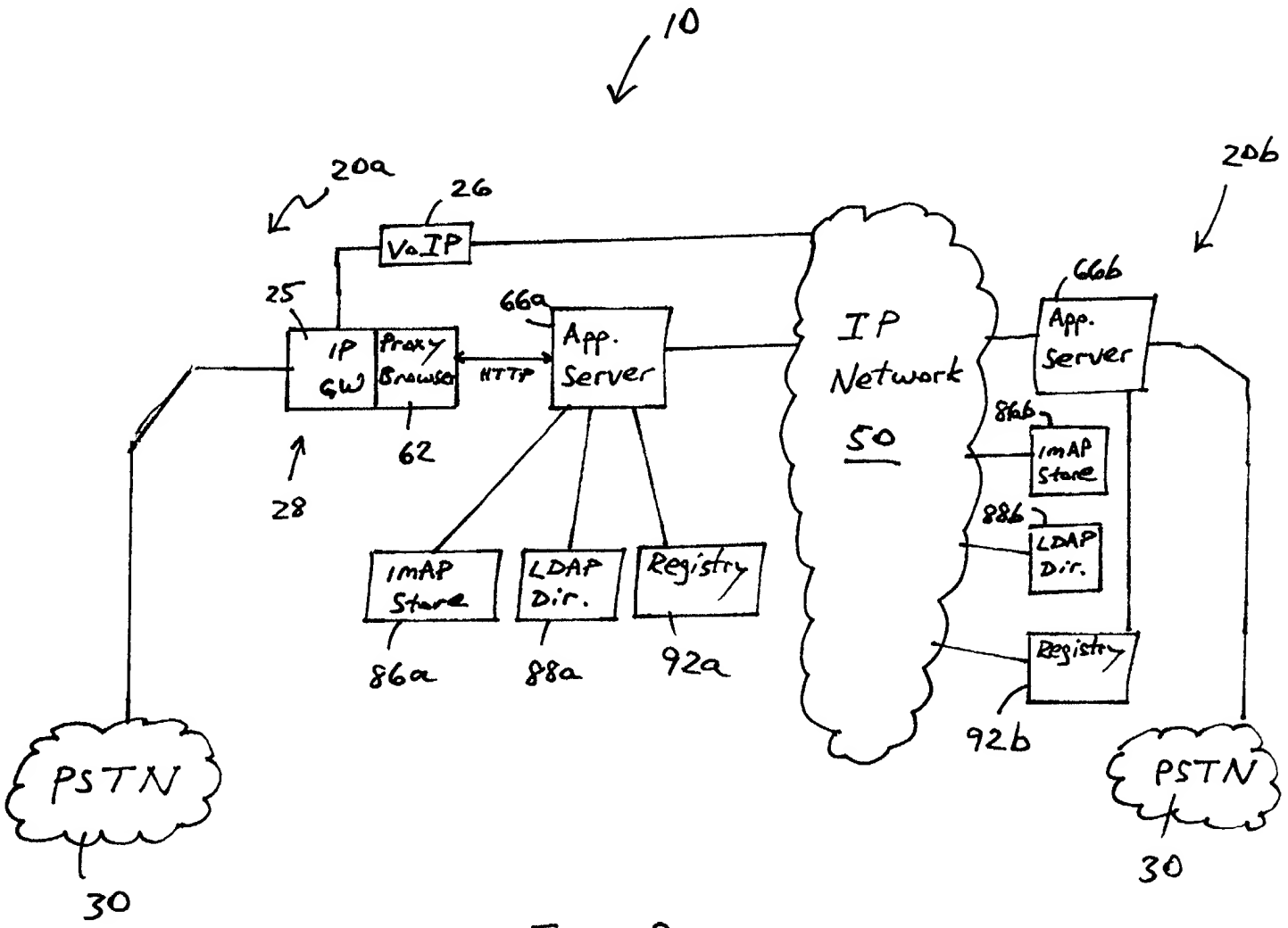

Figure 2

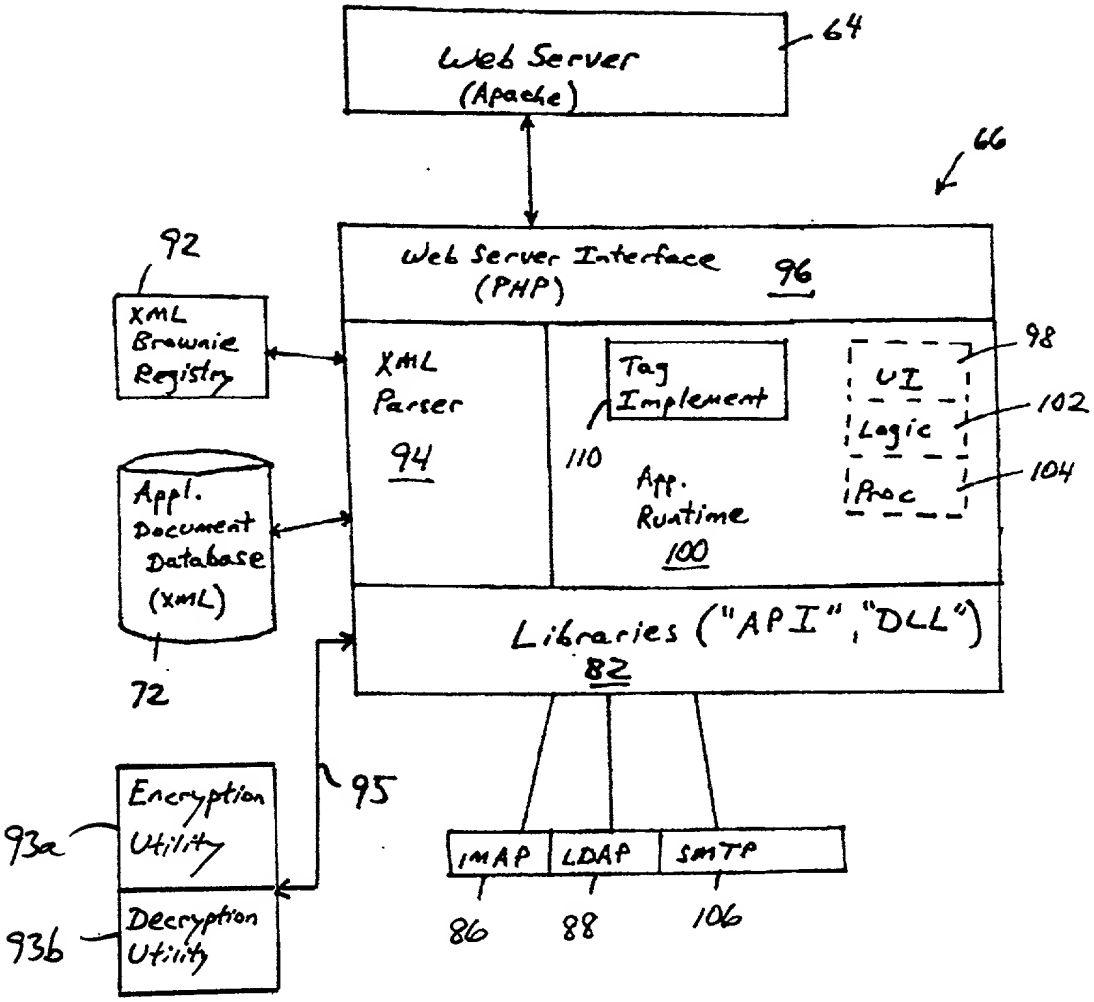
Web Server
(Apache)
64
66
Web Server Interface
(PHP)
96
92
XML
Brownie
Registry
XML
Parser
94
Tag
Implement
110
App.
Runtime
100
98
UI
Logic
Proc
102
104
Appl.
Document
Database
(xml)
72
Libraries ("API", "DLL")
82
95
Encryption
Utility
93a
Decryption
Utility
93b
IMAP
LDAP
SMTP
86
88
106

Figure 3

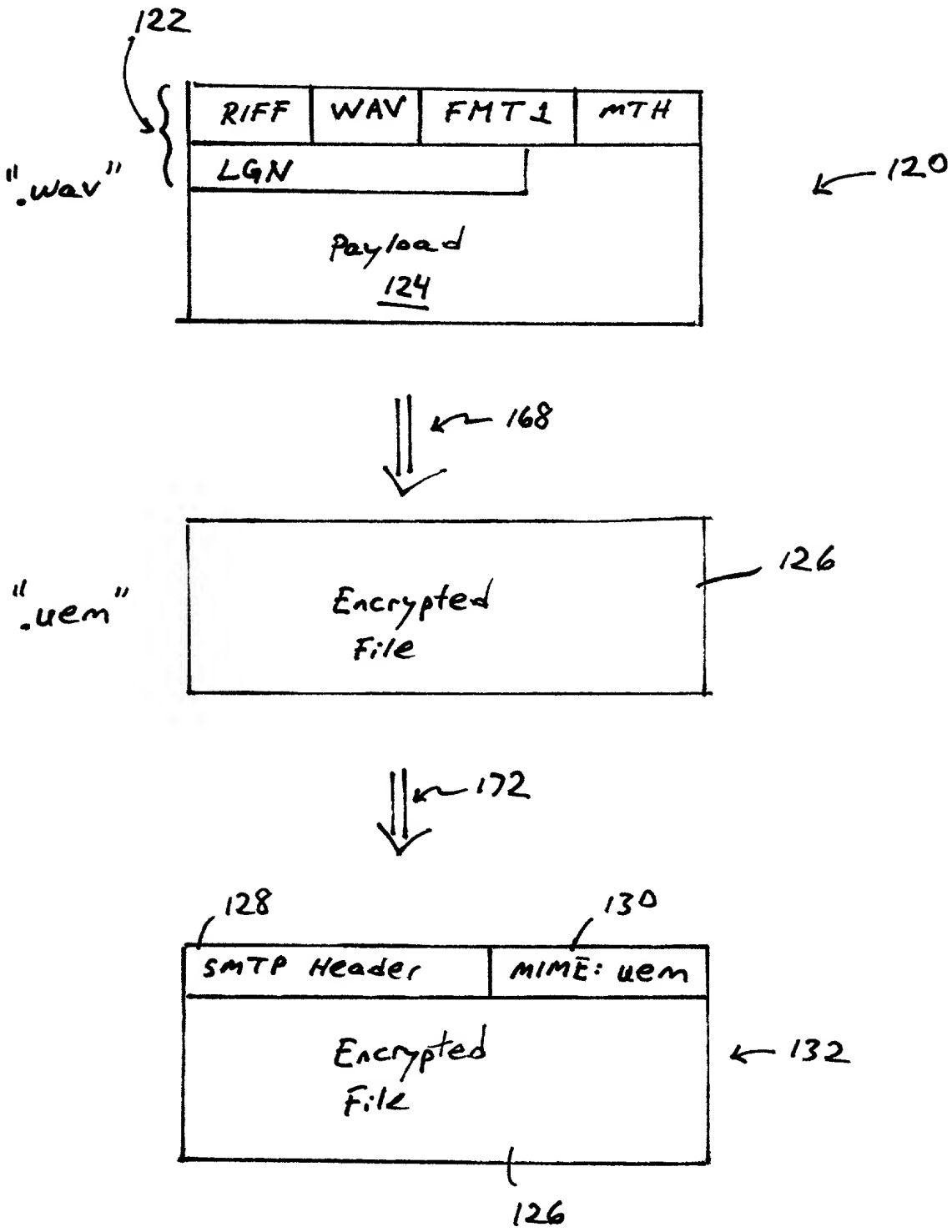
122
RIFF
WAV
FMT 1
MTH
LGN
".wav"
120
Payload
124
168
".uem"
Encrypted
File
126
172
128
130
SMTP Header
MIME: uem
Encrypted
File
132
126

Figure 4

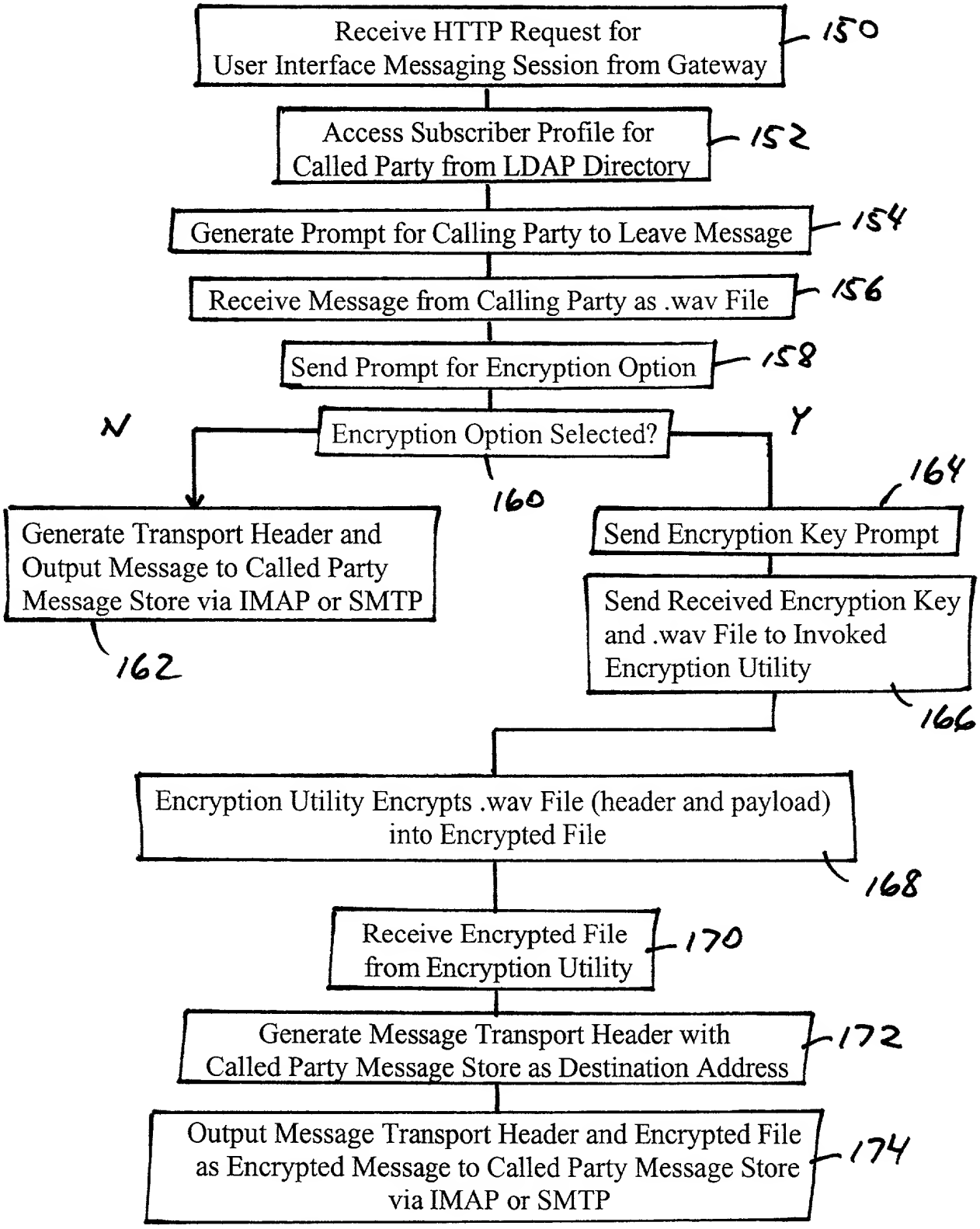
Receive HTTP Request for User Interface Messaging Session from Gateway
150
Access Subscriber Profile for Called Party from LDAP Directory
152
Generate Prompt for Calling Party to Leave Message
154
Receive Message from Calling Party as .wav File
156
Send Prompt for Encryption Option
158
N
Encryption Option Selected?
Y
160
Generate Transport Header and Output Message to Called Party Message Store via IMAP or SMTP
162
164
Send Encryption Key Prompt
Send Received Encryption Key and .wav File to Invoked Encryption Utility
166
Encryption Utility Encrypts .wav File (header and payload) into Encrypted File
168
Receive Encrypted File from Encryption Utility
170
Generate Message Transport Header with Called Party Message Store as Destination Address
172
Output Message Transport Header and Encrypted File as Encrypted Message to Called Party Message Store via IMAP or SMTP
174

Figure 5A

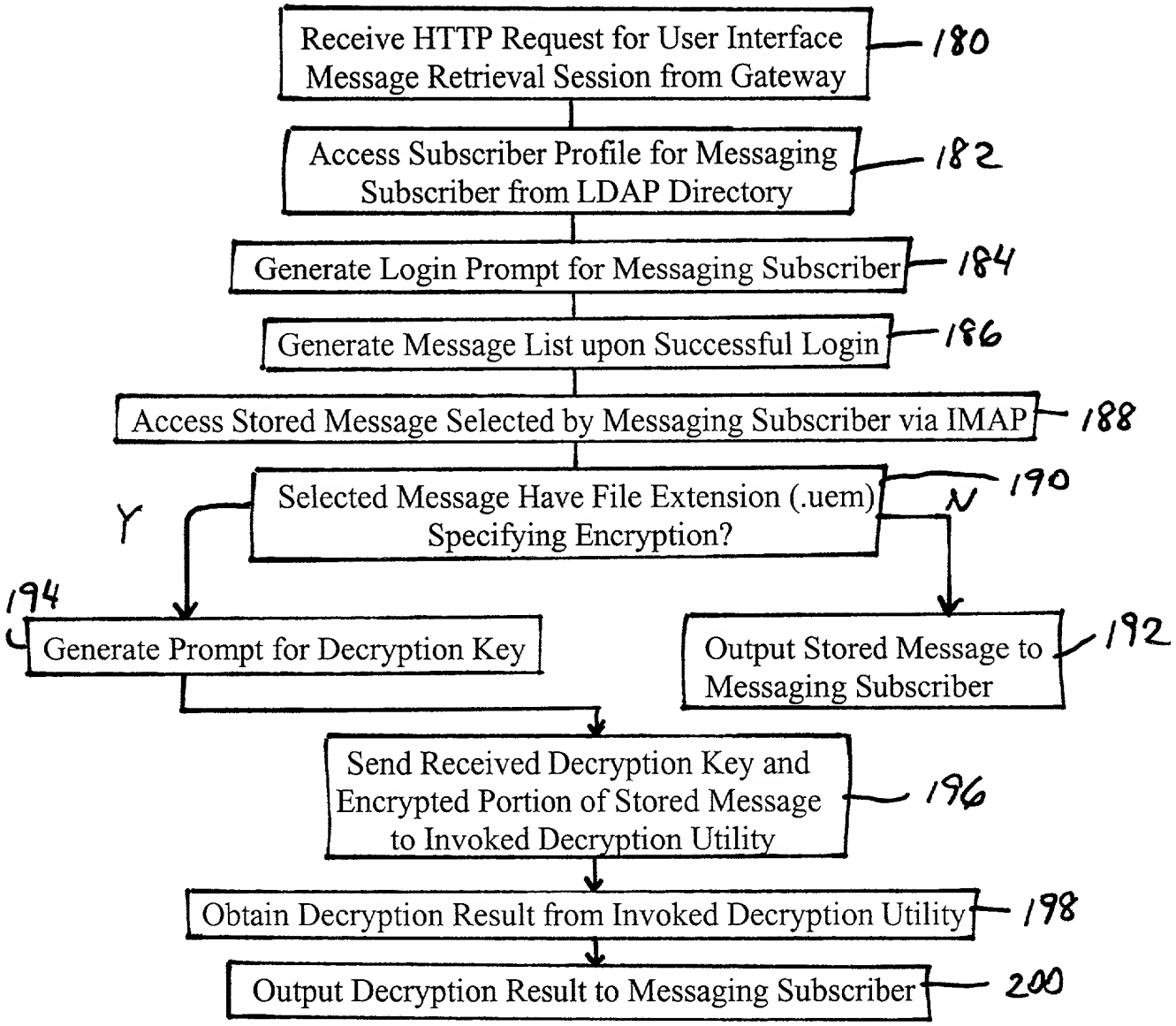
Receive HTTP Request for User Interface Message Retrieval Session from Gateway
180
Access Subscriber Profile for Messaging Subscriber from LDAP Directory
182
Generate Login Prompt for Messaging Subscriber
184
Generate Message List upon Successful Login
186
Access Stored Message Selected by Messaging Subscriber via IMAP
188
Selected Message Have File Extension (.uem) Specifying Encryption?
190
Y
N
194
Generate Prompt for Decryption Key
Output Stored Message to Messaging Subscriber
192
Send Received Decryption Key and Encrypted Portion of Stored Message to Invoked Decryption Utility
196
Obtain Decryption Result from Invoked Decryption Utility
198
Output Decryption Result to Messaging Subscriber
200

Figure 5B